

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 May 2001 (03.05.2001)

PCT

(10) International Publication Number
WO 01/30724 A1

(51) International Patent Classification⁷: **C05G 3/00**,
C05C 1/00, C05B 7/00, C05C 5/02

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SABATINI, Nicola**
[IT/IT]; Via F. Viaggi, 3, I-66100 Chieti (IT).

(21) International Application Number: **PCT/IT00/00428**

(74) Agent: **BELLOMIA, Paolo**; Bugnion S.p.A., Via V. E.
Orlando, 83, I-00185 Roma (IT).

(22) International Filing Date: 24 October 2000 (24.10.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
RM99A000671 29 October 1999 (29.10.1999) IT

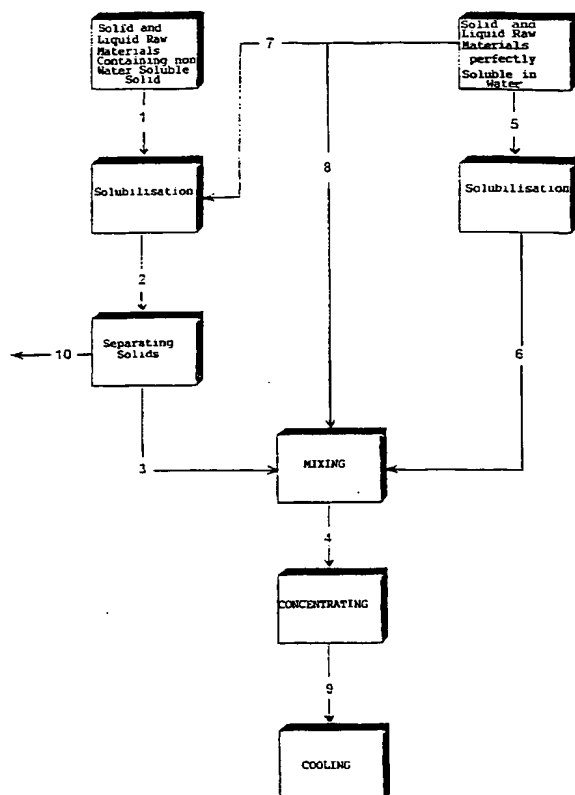
(81) Designated States (national): AE, AL, AM, AT, AU, AZ,
BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK,
DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
UG, US, UZ, VN, YU, ZA, ZW.

(71) Applicant (for all designated States except US): **S.I.S.O.
SOCIETA' INDUSTRIA SEQUESTRANTI OR-
GANICI S.R.L.** [IT/IT]; Piazza lega Lombarda, 1,
I-20154 Milano (IT).

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **WATER SOLUBLE COMPLEX FERTILISERS, METHOD FOR THEIR PREPARATION AND RELATED USE**



(57) Abstract: The present invention relates to a method for the preparation of a complex NPK fertiliser in the form of granules or prills, and to a method for its preparation and to the related use of the fertiliser thereby obtained. In particular the present invention relates to a fertiliser containing as fertilising elements Nitrogen N, Phosphor P, Potassium K, meso elements like Calcium Ca, Magnesium Mg, Sulphur S, and micro elements like Iron Fe, Manganese Mn, Zinc Zn, Copper Cu, Boron B and Molybdenum Mo.

WO 01/30724 A1

WO 01/30724 A1



Published:

— With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

DERWENT-ACC-NO: 1977-23157Y
DERWENT-WEEK: 197713
COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Ammonium polyphosphate prepn. for fertilisers - in which the granulation is carried out with the ppte. formed from the first ammoniation process

PATENT-ASSIGNEE: ZHDANOV YU F[ZHDAI]

PRIORITY-DATA: 1974SU-2003327 (March 11, 1974)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
SU 509565 A	June 28, 1976	N/A
000	N/A	

INT-CL (IPC): C05B007/00

ABSTRACTED-PUB-NO: SU 509565A

BASIC-ABSTRACT: Ammonium polyphosphate is prepd. by ammoniation of wet process phosphoric acid, sepg. by insoluble ppte. and then complete ammoniation of the filtrate obtd. The ammonium polyphosphate melt formed is then granulated. The physico-mechanical properties of the prod. are improved and the available P2O5 content increased if the granulation is carried out in the presence of the insoluble ppte. The prod. is used in the prodn. of mineral fertiliser.

TITLE-TERMS:

AMMONIUM PREPARATION FERTILISER GRANULE CARRY PRECIPITATION FORMING FIRST AMMONIATED PROCESS

DERWENT-CLASS: C04

CPI-CODES: C05-B02A2; C05-C01; C12-M11; C12-N09;

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

C108 C802 C807 C804 B720 C500 B815 B819 B115 B702

B713 B832 B833 N000 P111 P112 M720 R031 R032 R033

R034 R036 R038 R043 M411 M902